

## SYSTEM-RESOURCE-BASED MULTI-MODAL INPUT FUSION

### Abstract of the Disclosure

5           A multi-modal input fusion (MMIF) (200) is made scalable based on the  
resources available. When system resources are low, the MMIF module will limit  
the number of elements in each set of related interpretations. Additionally, the  
number of sets generated can be increased or reduced based on an amount of  
system resources available. In order to accommodate the scalable MMIF module,  
10   a resource profile (205) is provided to the MMIF describing the amount of  
resources (memory, processing power, etc.) available, and/or an amount of  
resources the MMIF module can utilize. Based on the amount of resources the  
MMIF module calculates threshold values that are used to adjust the number of  
sets produced and the number of elements included within each set.

15